

[illegible]

A methodology for screening libraries of compounds for desirable biological/therapeutic activities in a system that may be automated for the microinjection of compound(s) of interest into the open circulatory system (i.e., hemolymph) of *Drosophila* larvae genetically modified to sensitize a particular biochemical pathway, such as those related to a human disease, either by expression of a human disease gene or by the activation of a *Drosophila* gene that in the adult fly results in the development of an easily detectable phenotypes such that compounds that selectively interfere with this specific biochemical pathway will modify or suppress the phenotype and can be identified rapidly and efficiently.